

CLAIMS:

1. Hydraulic linear drive, particularly a hydraulic transmission actuator, having a piston/cylinder unit, in which an actuating piston (4, 6) longitudinally displaceably arranged in the cylinder housing (2) in the (divides the?) cylinder space into at least two pressure chambers (26, 28) which can be acted upon by hydraulic oil by way of control conduits (44, 46), and having a piston rod (8, 10) connected with the actuating piston (4, 6), as well as having a sealing element (16) arranged on the actuating piston (4, 6), by means of which sealing element (16), the two pressure chambers (26, 28) are sealed off from one another,
characterized in that the actuating piston has a two-piece construction and consists of a first and a second piston part (4, 6) between whose facing faces, a sealing element (16) is arranged.

2. Hydraulic linear drive according to Claim 1,
characterized in that, for the sealing element (16), a sealing device carrier (18) is provided which is axially guided on one of the two piston parts (4, 6).

3. Hydraulic linear drive according to Claim 1 or 2,
characterized in that, for the axial guidance, the sealing device

carrier (18) engages on the face in the first piston part (4).

4. Hydraulic linear drive according to Claim 2 or 3, characterized in that the sealing device carrier (18) is shaped in one piece out of the second piston part (6).

5. Hydraulic linear drive according to Claim 2 or 3, characterized in that the sealing device carrier (18) is arranged as a separate component between the two piston parts (4, 6).

6. Hydraulic linear drive according to one of Claims 2 to 5, characterized in that the sealing device carrier (18) is longitudinally displaceably disposed on the first piston part (4), the relative movement of the sealing device carrier (18) being limited by two stops (30, 32) constructed on the first piston part (4).

7. Hydraulic linear drive according to one of the preceding claims, characterized in that the two piston parts (4, 6) are constructed as step pistons.

8. Hydraulic linear drive according to Claim 7, characterized in that a longitudinal groove (36, 38) is made in

the surface area of a piston section (4a, 6a), which longitudinal groove (36, 38) in each case connects a first pressure chamber (40, 42) with a second pressure chamber (26, 28).

9. Hydraulic linear drive according to Claim 8, characterized in that the hydraulic oil feed takes place by one pressure conduit (44, 46) respectively which is connected to the second pressure chamber (40, 42).